

It is claimed:

1. A composition comprising (i) a suspension of microbubbles which are encapsulated with a filmogenic protein and contain a gas selected from a perfluorocarbon and SF₆, and
5 (ii) a non-antisense antiproliferative therapeutic agent.
2. The composition of claim 1, wherein the gas is a perfluorocarbon selected from the group consisting of perfluoromethane, perfluoroethane, perfluoropropane, perfluorobutane, and perfluoropentane.
- 10 3. The composition of claim 1, wherein the protein is human serum albumin.
4. The composition of claim 1, wherein the agent is selected from the group consisting of rapamycin, paclitaxel, docetaxel, tacrolimus, and active analogs, derivatives or prodrugs
15 of these compounds.
5. The composition of claim 5, wherein the agent is selected from the group consisting of rapamycin, paclitaxel, and docetaxel.
- 20 6. The composition of claim 1, wherein the agent is selected from the group consisting of cisplatin, carboplatin, etoposide, tamoxifen, methotrexate, 5-fluorouracil, adriamycin, daunorubicin, doxorubicin, amsacrine, mitotane, topotecan, tretinoin, hydroxyurea, procarbazine, carmustine, mechlorethamine hydrochloride, cyclophosphamide, ifosfamide, chlorambucil, melphalan, busulfan, thiotepa, carmustine, estramustine, dacarbazine,
25 omustine, streptozocin, vincristine, vinblastine, vinorelbine, vindesine, fludarabine, fluorodeoxyuridine, cytosine arabinoside, cytarabine, azidothymidine, cysteine arabinoside, azacytidine, mercaptopurine, thioguanine, cladribine, pentostatin, arabinosyl adenine, dactinomycin, daunorubicin, doxorubicin, amsacrine, idarubicin, mitoxantrone, bleomycin, plicamycin, ansamitomycin, mitomycin, aminoglutethimide, and flutamide.

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7. The composition of claim 6, wherein the agent is selected from the group consisting of cisplatin, carboplatin, etoposide, tamoxifen, methotrexate, 5-fluorouracil, adriamycin, daunorubicin, doxorubicin, vincristine, and vinblastine.
- 5 8. The composition of claim 1, wherein said composition is formed by incubating said agent with said suspension of microbubbles.
9. A method for delivering an antiproliferative therapeutic agent to the site of a tumor in a subject, comprising:
- 10 administering parenterally to a subject having said tumor a composition comprising said agent and a suspension of microbubbles which are encapsulated with a filmogenic protein and contain a gas selected from a perfluorocarbon and SF₆.
10. The method of claim 9, wherein said administration is carried out without application
15 of external stimulation to said composition during or following administration.
11. The method of claim 9, wherein the gas is a perfluorocarbon selected from the group consisting of perfluoromethane, perfluoroethane, perfluoropropane, perfluorobutane, and perfluoropentane.
- 20 12. The method of claim 9, wherein the protein is human serum albumin.
13. The method of claim 9, wherein the agent is selected from the group consisting of rapamycin, paclitaxel, docetaxel, tacrolimus, and active analogs, derivatives or prodrugs of
25 these compounds.
14. The method of claim 13, wherein the agent is selected from the group consisting of rapamycin, paclitaxel, and docetaxel.
- 30 15. The method of claim 9, wherein the agent is selected from the group consisting of cisplatin, carboplatin, etoposide, tamoxifen, methotrexate, 5-fluorouracil, adriamycin, daunorubicin, doxorubicin, amsacrine, mitotane, topotecan, tretinoin, hydroxyurea,

procarbazine, carmustine, mechlorethamine hydrochloride, cyclophosphamide, ifosfamide, chlorambucil, melphalan, busulfan, thiotepa, carmustine, estramustine, dacarbazine, omustine, streptozocin, vincristine, vinblastine, vinorelbine, vindesine, fludarabine, fluorodeoxyuridine, cytosine arabinoside, cytarabine, azidothymidine, cysteine

- 5 arabinoside, azacytidine, mercaptopurine, thioguanine, cladribine, pentostatin, arabinosyl adenine, dactinomycin, daunorubicin, doxorubicin, amsacrine, idarubicin, mitoxantrone, bleomycin, plicamycin, ansamitomyin, mitomycin, aminoglutethimide, and flutamide.

- 15 16. The method of claim 14, wherein the antiproliferative agent is selected from the group
10 consisting of cisplatin, carboplatin, etoposide, tamoxifen, methotrexate, 5-fluorouracil, adriamycin, daunorubicin, doxorubicin, vincristine, and vinblastine.

16. The method of claim 9, wherein the agent is a non-antisense agent.

- 15 17. The method of claim 9, wherein said composition is formed by incubating said agent with said suspension of microbubbles.